

EU Declaration of Conformity

Annex II.A of the Machinery Directive

Manufacturer

SoRoTo Maskiner Aps
Ved Damhussøen 24
DK-2720 Vanløse
Denmark

Declares herewith that

SoRoTo Agitator mixers

Types: 40L/30, 60L/30, 80L/30, 100L/30, 120L/30 and 300L/30

- are manufactured in conformity with the stipulation contained in the COUNCIL DIRECTIVE of 22 June 1998 on the approximation of the laws of member states on machines (98/37/EEC including subsequent modifications) with special regard to annex 1 of the directive on important safety and health requirements in connection with the design and manufacture of machines.

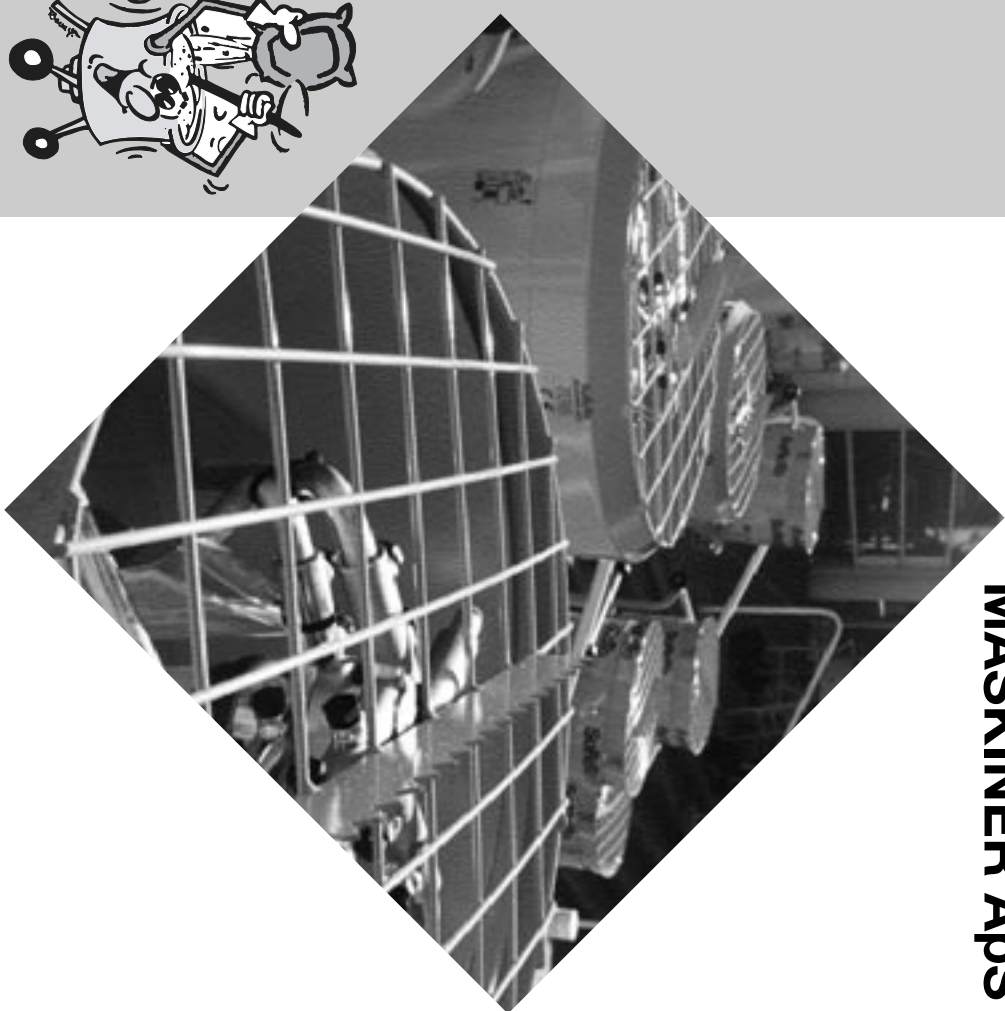
- are manufactured in conformity with the following harmonised standards:

EN 292-1, EN 292-2, EN 294, EN 418,
EN 954-1, EN 1037, prEN 10151, EN 60204-1.

SoRoTo Maskiner Aps
Benny Andersen
Manufacturer

Agitator Mixers Manual

SoRoTo
MASKINER Aps



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Ved Damhussøen 24, DK-2720 Vanløse
Egegårdsvej 2-4, DK-2610 Rødovre

ENGLISH

User manual for:
40L/60L/80L /100L/120L

Application

The SoRoTo Super mixers are ideal for the mixing of all materials in the building industry as well as for other mixing tasks where great demands are placed on fast and homogeneous mixing of materials. When mixing cement with stone, only SoRoTo Super mixer 60L/30, 80L/30 , 100L/30 and 120L/30 with rubber blades can be used.

Before starting (only 40L/30 and 60L/30).

Before starting the mixer, the telescopic legs must be positioned to the required height for draining into a bucket or wheelbarrow.

The easiest way of adjusting the legs is to lay the mixer down so it rests on all four wheels. The legs are released or locked with the fitted lock splits.

Before connection of power.

Before the power is connected, the mixing blades must be set in place, the emptying funnel lowered.

The safety net in front of the emptying funnel must be attached.

The above instructions are a demand from the Factories Inspectorate which must be fulfilled before the machine can be used.

Operation of the SoRoTo Super mixer.

A protective motor switch is fitted onto the mixer with an emergency stop. Under the emergency stop are the push buttons for start and stop operations. Furthermore, in the protective motor switch, a zero voltage releaser is fitted. In case of power failure, the mixer must be re-started.

The motor will not start if the grid funnel is not closed.

The mixer is now ready for use. When using bagged materials, the bag is placed on the grid and split open with the cutting tool so the material falls down into the mixing drum. The liquid can then be added.

The machine can tolerate standing still or being run during filling.

Warning:

Never put your hand or any object into the machine when the mixer is connected to power.

After the concluded mixing time and when the material has achieved the desired consistency, the chute at the bottom of the mixing drum is opened for emptying.

Emptying can occur several times, depending on the need. Be aware that the material may never set in the mixing drum.

Warning:

Since the machine runs during emptying, never put your hand or any object into the machine while it is emptying. Should the machine become jammed, e.g. with large stones, ensure that the plug is taken out of the protective motor switch, before removing the obstruction.

Cleaning

Before the mixer is cleaned, the plug must be removed from the socket.

The grid funnel is opened and the mixing blades lifted off without using tools. The mixing blades are washed



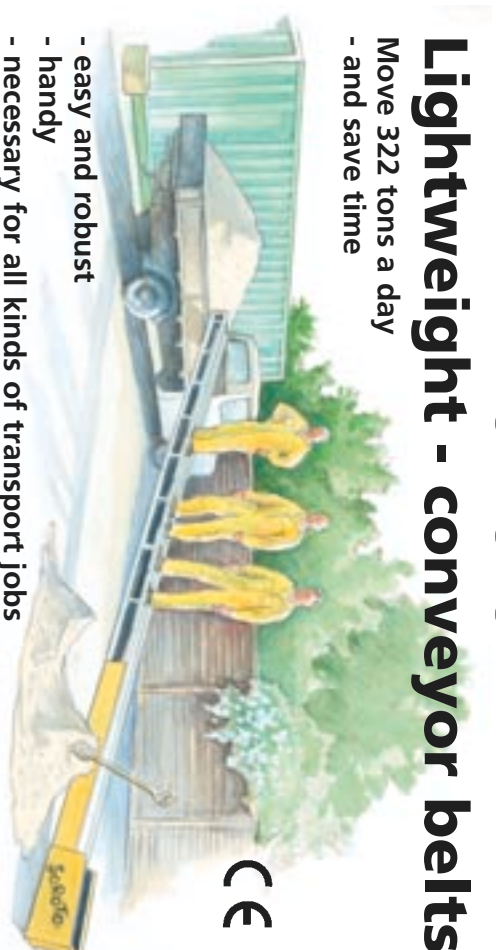
Other SoRoTo Products

SoRoTo

Lightweight - conveyor belts

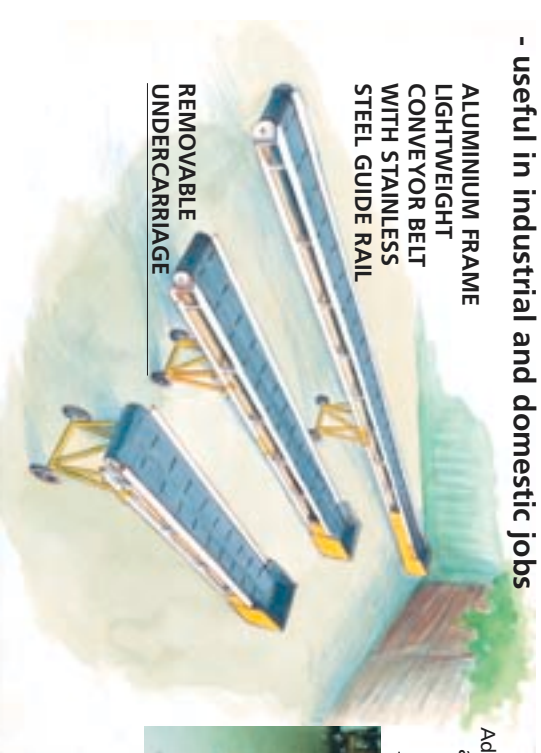
Move 322 tons a day
- and save time

- easy and robust
- handy
- necessary for all kinds of transport jobs
- useful in industrial and domestic jobs



ALUMINIUM FRAME
LIGHTWEIGHT
CONVEYOR BELT
WITH STAINLESS
STEEL GUIDE RAIL

REMOVABLE
UNDERCARRIAGE



Additional accessories:
aluminium infed
hopper for
wheelbarrow
- easy installation

Other SoRoTo Products

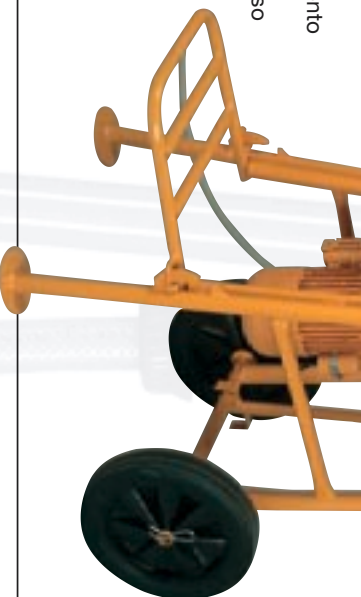
SoRoTo

WATER DOSING PLANT



SoRoTo's water dosing plant is mechanical. The dosing volume is adjusted on the inside float in the water tank and you will hereby achieve equal blends every time - in record time.

The dosing plant will fit onto SoRoTo's dustproof lid. A vacuum cleaner can also be installed on the lid to prevent dust in eyes and mouth.



separately. The mixing drum can now be rinsed.

After concluded cleaning, the mixing blades are fitted and the grid funnel closed.

Mixing blades

The four mixing blades are placed at different heights.

Replacement and setting of the mixing blades is easily done by loosening the two bolts that hold the blade concerned.

Transport

When transporting the mixer, it is recommended that it be set down on the four wheels. The grid funnel must be locked with the fitted rubber strap.

Safety

When using an extension cable, you must be aware of the following:

- Never use a longer cable than necessary.
- Always use a cable with a min. dimension of 1 mm².
- Never use the cable when it is rolled up. Always roll it out completely.

Emergency stop can always be released without risk to personnel, machine or product. After release of the emergency stop, the defect is remedied and the machine is re-set and started normally.

When mixing materials that emit unpleasant or dangerous vapours and/or dust, a leak-proof cover lid must be used.

Technical data

Model	40L/30
Motor:	240V - 0,75 kW – 50 Hz
B/L/H:	60*60*85 cm
Capacity:	40 L.
Weight:	45 kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Model	60L/30
Motor:	240V - 0,75 kW – 50 Hz
B/L/H:	60*75*85 cm
Capacity:	60 L.
Weight:	54 kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Model	80L/30
Motor:	240V - 0,75 kW – 50 Hz
B/L/H:	60*75*106 cm
Capacity:	80 L.
Weight:	65 kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Model	100L/30
Motor:	240 V - 0,75 kW – 50 Hz
B/L/H:	68*80*106 cm
Capacity:	100 L.
Weight:	75 kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Model	120L/30
Motor:	240 V – 1,1 kW – 50 Hz
B/L/H:	72*95*118 cm
Capacity:	120 L.
Weight:	90 kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Technical support:

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SoRoTo
MASKINER APS

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United Kingdom
Art-00033a reserved 40L/60L/80L

Spare Parts List

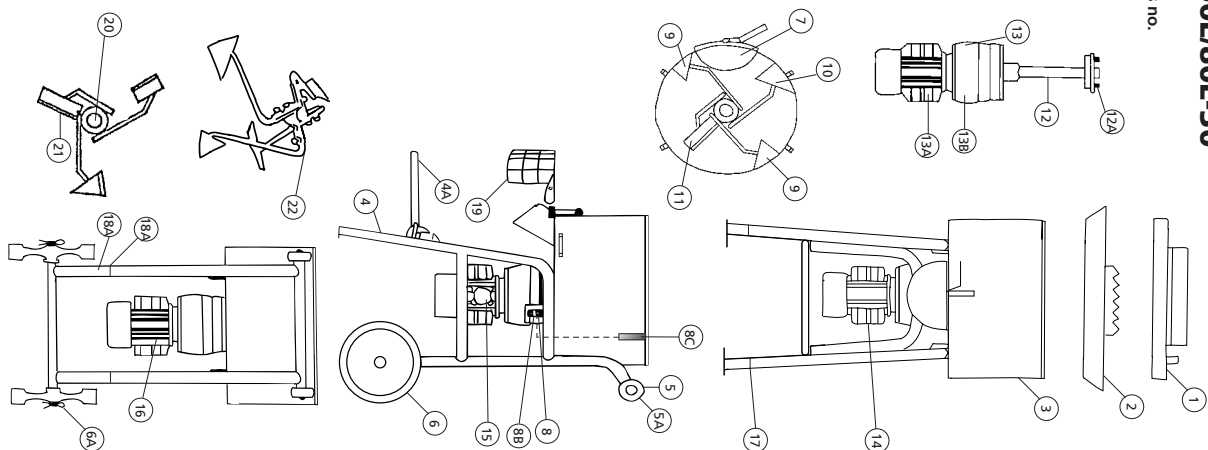


SoRoTo Agitator Mixers Type 40L/60L/80L-30

Pos. no.	Description	Spare parts no.
#1.	Leakproof cover*	XX.001
2.	Grid funnel	XX.002
3.	Mixing drum incl. chute	XX.003
4.	Separate frame	XX.004
4A	Bucket stand	XX.004A
5.	Small wheel incl. fastlock	XX.005
5A	Fastlock	XX.005A
6.	Large wheel incl. cotter key	XX.006
7.	Discharge chute incl. bolts etc.	XX.007
8.	Shut-off incl. protective motor switch and O-discharger	XX.008
8B	Separate thermal circuit breaker (only older models)	XX.008B
8C	Limit stop, for mechanical disconnection (single item) Side scrapers (long)	XX.008C
9.	(single item) Side scrapers (short)	XX.009
#9A	(single item) Side scrapers (short)	XX.009A
10.	(single item) Side base scrapers	XX.010
11.	(single item) Base scraper "rake"	XX.011
12.	Discharge axle	XX.012
12A	Complete set of span plugs	XX.012A
13.	Motor 0.75 kW	XX.013
	1400/26 rpm - 1 x 230 V	
13A	Separate motor with out gear	XX.013A
13B	Separate gear with out motor	XX.013B
14.	Starting capacitor 250 µf.	XX.014
	072/H125mm.	
15.	Operation capacitor 25 µf.	XX.015
	035/H100mm.	
16.	Phase compensation capacitor 20 µf.	XX.016
#17.	Extension legs front	XX.017
#18.	Extension leg back	XX.018
#18A	Cotter key for extension leg	XX.018A
19.	Safety grid	XX.019
#20.	3-armed rubber scraper set complete*	XX.020
#21.	Rubber (replacement set)*	XX.021
22.	Mixing blades complete	XX.022
23.		XX.023
24.		XX.024
24A		XX.024A
25.		XX.025
25A		XX.025A
26.		XX.026
26A		XX.026A

*EXTRA

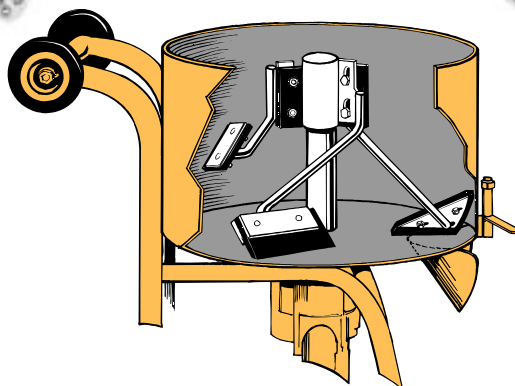
1-20-21 Are not Available only for 40L
9A Available only for 40L
17-18-18A Available only for 40L/60L
4A Available only for 80 L



Achieve a better working environment

You can avoid dust when working with dry products. SoRoTo has developed a leakproof cover where you can easily attach a vacuum cleaner and water hose and thereby keep dust away from the nose and lungs.

The vacuum cleaner forms a slight pressure in the mixing drum and in this way ensures that the dust does not escape. A water hose or SoRoTo's special water dosing plant can be easily attached to the water nozzle. This ensures that you obtain the same pre-set amount of water. It saves time and provides consistent mixtures.



Exchangeable paddles for SoRoTo Super Mixers.
The paddles are fitted with rubber scrapers and rubber suspensions.
Ideal for all mixes containing aggregate.



GB

Other SoRoTo Products

User manual for 300L Jumbo Mixer

Application

The SoRoTo Jumbo mixer is ideal for the mixing of most materials in the building industry as well as for other mixing tasks where great demands are placed on fast and homogeneous mixing of materials.

Before starting

Before starting the mixer, the telescopic legs must be positioned to the required height.

Adjusting of the legs is made easier if you handle one leg at a time. The easiest way is with 2 people. One person lifts whilst the other adjusts the legs. The legs are released or locked with the lock split.

Before connection of power.

Before the power is connected, the mixing blades must be set in place, the grid funnel lowered.

The above instructions are a demand from the Factories Inspectorate which must be fulfilled before the machine can be used.

Operation of the SoRoTo Jumbo mixer.

A protective motor switch is fitted onto the mixer with an emergency stop. Under the emergency stop are the push buttons for start and stop operations. Furthermore, in the protective motor switch, a zero voltage releaser is fitted. In case of power failure, the mixer must be re-started.

The protective motor switch is also fitted with a 230 volt outlet, e.g. for working light, vacuum cleaner, whisk or conveyor belt.

The motor will not start if the grid funnel is not closed.

The mixer is now ready for use. When using bagged materials, the bag is placed on the grid and split open with the cutting tool so

the material falls down into the mixing drum. The liquid can then be added.

The machine can tolerate standing still or being run during filling.

Warning:

Never put your hand or any object into the machine when the mixer is connected to power.

After the concluded mixing time and when the material has achieved the desired consistency, the chute at the bottom of the mixing drum is opened for emptying.

Emptying can occur several times, depending on the need. Be aware that the material may never set in the mixing drum.

Warning:

Since the machine runs during emptying, never put your hand or any object into the machine while it is emptying.

Should the machine become jammed, e.g. with large stones, ensure that the plug is taken out of the protective motor switch, before removing the obstruction.

Cleaning

Before the mixer is cleaned, the plug must be removed from the socket.

The grid funnel is opened, the mixing blades can now be lifted without the use of tools. It is, however, recommended that 2 people carry out this task. The mixer can now be cleaned. The easiest way of doing this is with a water hose or high-pressure cleaner.

Note that water or dirt must not contaminate the axle tower whilst the mixing blades are removed.

After concluded cleaning, the mixing blades are fitted and the grid funnel closed.

Mixing blades

The four mixing blades are placed at different heights.

Replacement and setting of the mixing blades is easily done by loosening the two U-bolts that hold the blade concerned.

When replacing the mixing paddles, dismantle the 2 bolts that are placed at the back.

Transport

When transporting the Jumbo mixer with the traction bar, the traction bar is locked with 2 pin bolts. The traction bar can now be attached to a vehicle. The transport must be carried out at a very slow speed. During transport, the grid funnel must be locked with the fitted rubber strap.

When transporting on a truck, the mixer is lifted onto the truck with the help of the three lifting rings that are on the top of the mixing drum. The wheels must be blocked during transport.

Safety

When using an extension cable, you must be aware of the following:

- Never use a longer cable than necessary.
- Always use a cable with a min. dimension of 1 mm².
- Never use the cable when it is rolled up. Always roll it out completely.

Emergency stop can always be released without risk to personnel, machine or product. After release of the emergency stop, the defect is remedied and the machine is re-set and started normally.

When mixing materials that emit unpleasant or dangerous vapours and/or dust, a leak-proof cover lid must be used.

Technical data

Model	300L/30
Motor:	400V – 3,0 kW – 50 Hz
B/L/H:	100*120*137 cm
Capacity:	300 L.
Weight:	249 Kg (empty).
L _{Aeq}	< 75dB(A) with mortar.

Technical support:

Workshop : Egegårdsvej 4-6,
DK-2610 Rødovre Tel. +45 36 72 78 00
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Other enquiries :

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Spare Parts List

SoRoTo Agitator Mixers

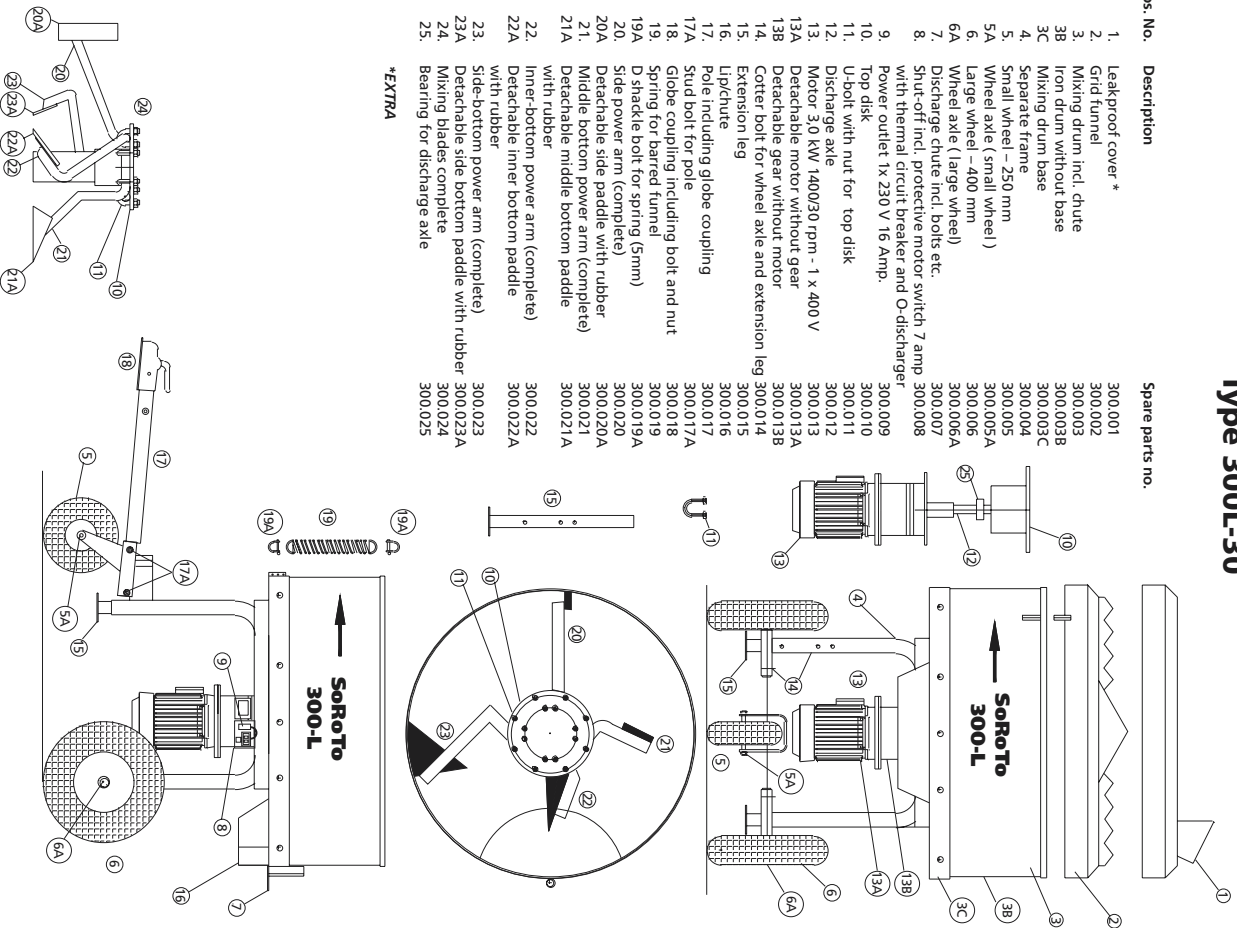
Type 300L-30

Pos. No. Description

Spare parts no.

1.	Leakproof cover *	300.001
2.	Grid funnel	300.002
3.	Mixing drum incl. chute	300.003
3B	Iron drum without base	300.003B
3C	Mixing drum base	300.003C
4.	Separate frame	300.004
5.	Small wheel - 250 mm	300.005
5A	Small axle (small wheel)	300.005A
6.	Large wheel - 400 mm	300.006
6A	Wheel axle (large wheel)	300.006A
7.	Discharge chute incl. bolts etc.	300.007
8.	Shut-off incl. protective motor switch 7 amp with thermal circuit breaker and O-discharger	300.008
9.	Power outlet 1x 230 V 16 Amp.	300.009
10.	Top disk	300.010
11.	U-bolt with nut for top disk	300.011
12.	Discharge axle	300.012
13.	Motor 3.0 kW 1400/20 rpm - 1 x 400 V	300.013
13A	Detachable motor without gear	300.013A
13B	Detachable motor without motor	300.013B
14.	Cotter bolt for wheel axle and extension leg	300.014
15.	Extension leg	300.015
16.	Lip/chute	300.016
17.	Pole including globe coupling	300.017
17A	Stud bolt for pole	300.017A
18.	Globe coupling including bolt and nut	300.018
19.	Spring for barred funnel	300.019
19A	D shackle bolt for spring (5mm)	300.019A
20.	Side power arm (complete)	300.020
20A	Detachable side paddle with rubber	300.020A
21.	Middle bottom power arm (complete)	300.021
21A	Detachable middle bottom paddle with rubber	300.021A
22.	Inner-bottom power arm (complete)	300.022
22A	Detachable inner bottom paddle with rubber	300.022A
23.	Side-bottom power arm (complete)	300.023
23A	Detachable side bottom paddle with rubber	300.023A
24.	Mixing blades complete	300.024
25.	Bearing for discharge axle	300.025

*EXTRA



Spare Parts List

SoRoTo Agitator Mixers

Type 100/120L-30

Pos. no. Description

Spare parts no.

1.	Leakproof cover*	XXX.001
2.	Grid funnel	XXX.002
3.	Mixing drum incl. chute	XXX.003
3A	Aluminium drum without base	XXX.003A
3B	Iron drum without base	XXX.003B
3C	Mixing drum base	XXX.003C
4.	Separate frame	XXX.004
4A	Bucket stand	XXX.004A
5.	Small wheel incl. fastlock	XXX.005
5A	Fastlock	XXX.005A
6.	Large wheel incl. cotter key	XXX.006
7.	Discharge chute incl. bolts etc.	XXX.007
8.	Shut-off incl. protective motor switch 7.5 / 9.5 amp with thermal circuit breaker and O-discharger	XXX.008
8B	Separate thermal circuit breaker (only older models)	XXX.008B
8C	Limit stop, for mechanical disconnection (single item)	XXX.XX8C
#9.	(single item) Side scrapers (long)	XXX.009
#10.	(single item) Side base scrapers	XXX.010
#11.	(single item) Base scraper "rake"	XXX.011
12.	Discharge axle	XXX.012
12A	Complete set of span plugs	XXX.012A
13.	Motor 0.75 / 1.1 kW	XXX.013
14.	1400/26 rpm - 1 x 230 V	XXX.014
15.	Starting capacitor 250 µF; 072/H125mm.	XXX.015
16.	Phase compensation capacitor 20 µF; 035/H100mm.	XXX.016
17.	Operation capacitor 25 µF.	XXX.017
18.	Phase compensation capacitor 20 µF.	XXX.018
19.	Safety grid	XXX.019
20.	3-armed rubber scraper set complete*	XXX.020
21.	Rubber (replacement set)*	XXX.021
#22.	Mixing blades complete	XXX.022
#23.	Multi-mixing blades complete	XXX.023
#24.	Multi-sidescrapers incl. mixing blades	XXX.024
#24A	Separate sidescrapers complete	XXX.024A
#25.	Multi-sidescrapers complete	XXX.025
#25A	Separate side-base blade	XXX.025A
#26.	Multi-rake scraper complete	XXX.026
#26A	Separate rake blade	XXX.026A

*EXTRA
9-10-11 & 22 Available only for 100L
23 - 26A Available only for 120L

